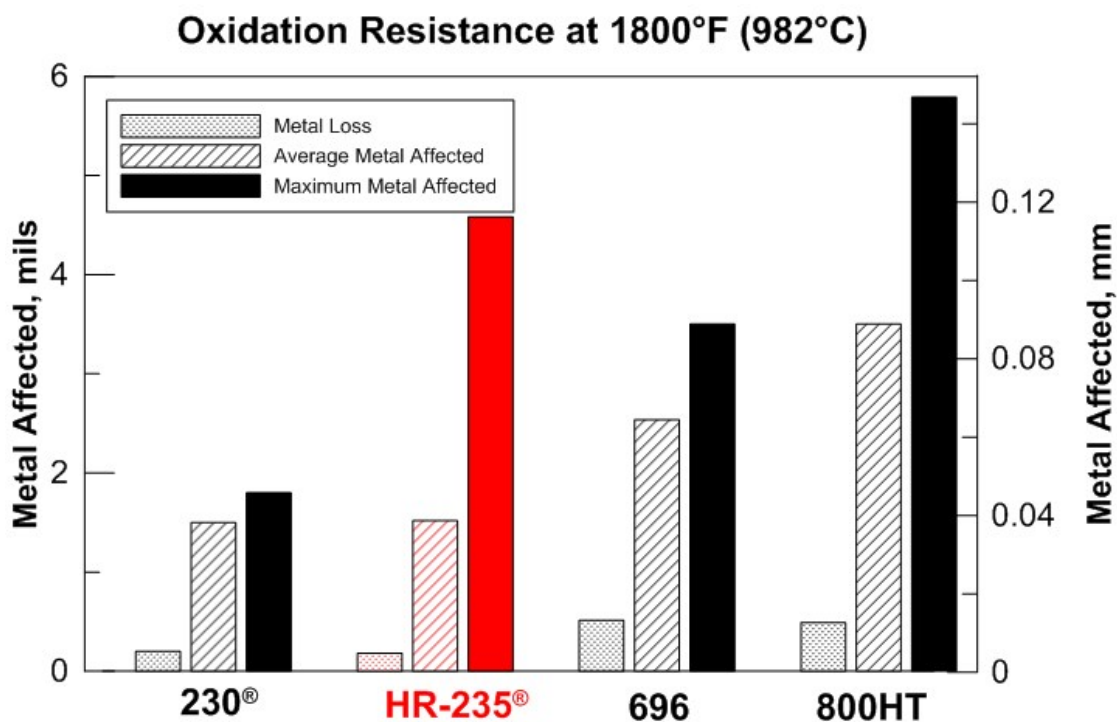
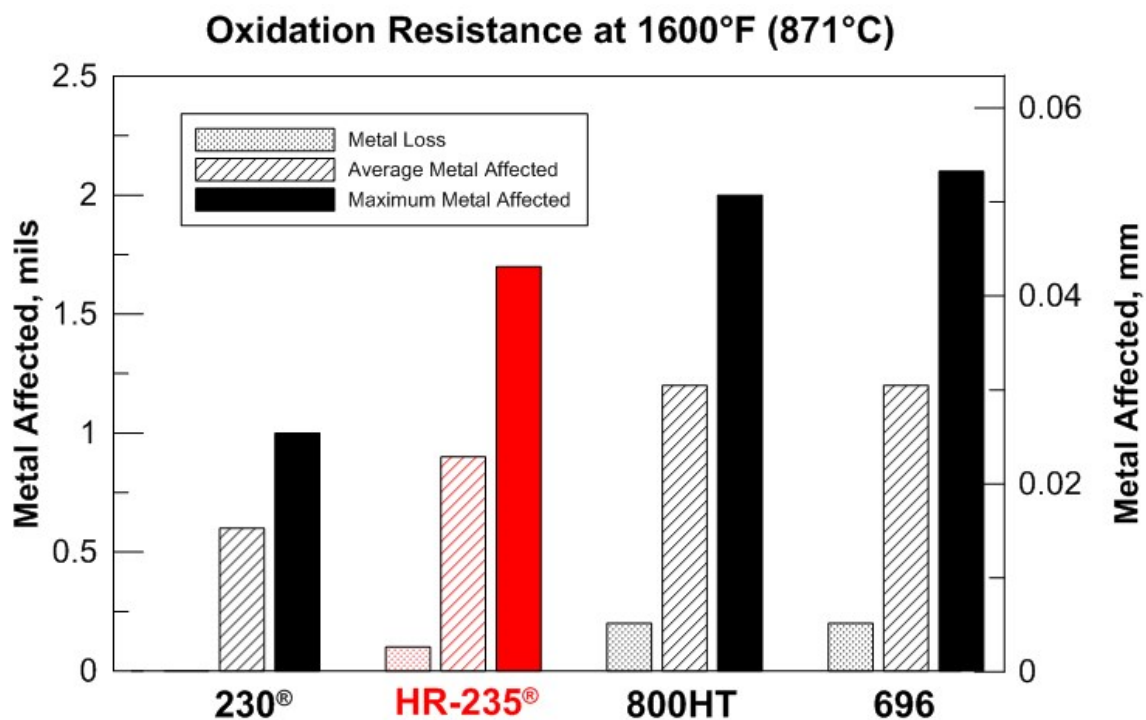


HAYNES[®] HR-235[®] alloy

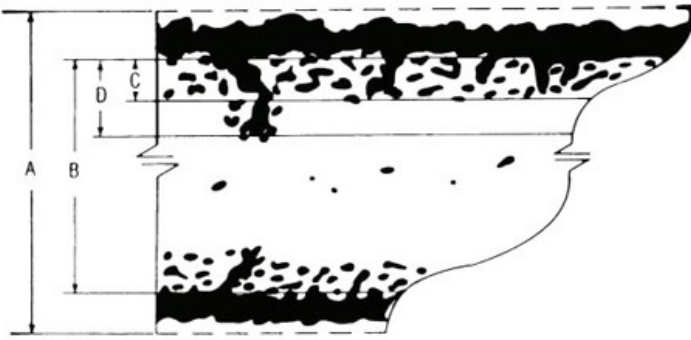
Oxidation Resistance

HAYNES[®] HR-235[®] alloy also exhibits good oxidation resistance, as indicated in the following chart. The test was performed in flowing air (55.5 cm³/s) for 1,008 h, with an air cool to room temperature every 168 h.



Measurement of High Temperature Corrosion Attack

To assess the extent of attack (internal and external) of materials caused by oxidation, the following measurements are taken, using metallographic techniques, where A is the original thickness of the sample.



1. Metal Loss = $(A-B)/2$
2. Average Internal Penetration = C
3. Maximum Internal Penetration = D
4. Average Metal Affected = $[(A-B)/2] + C$
5. Maximum Metal Affected = $[(A-B)/2] + D$